

DEPARTMENT OF THE NAVY

NAVAL ELECTRONIC SYSTEMS COMMAND WASHINGTON, D. C. 20360

NAVELEX INST 5430.29

PDE 110 4 Sep 84

NAVELEX INSTRUCTION 5430.29

From: Commander, Naval Electronic Systems Command

Subj: DESIGNATION OF HIGH FREQUENCY ANTI-JAM PROGRAM (PME 110H)

Ref: (a) DoD Directive 5000.1 dated 29 Mar 82

(b) SECNAVINST 5000.1B

(c) NAVMATINST 5460.2B

(d) ASN (RE&S) memo dated 1 Feb 84

(e) NAVMATINST 5000.21A

(f) VCNM Memo Ser 09/0780 dated 29 Jun 82

Encl: (1) Charter for the High Frequency Anti-Jam Program, PME 110H
 with Appendix (A)

Purpose

- a. To establish the High Frequency Anti-Jam Program (HFAJ) as a major program under the direction of the Program Director, Communications Systems Program Office, (PDE-110) Naval Electronic Systems Command in accordance with the provisions of references (a), (b) and (c).
- b. To issue the PME-110H charter, enclosure (1), which contains the scope, operating relationships, organization and resources of the program office, and which delineates the authority, accountability and responsibility of the HFAJ Program Manager.
- 2. <u>Background</u>. By reference (d), HFAJ was designated ACAT I. Enclosure (1) is submitted in the format of reference (e) and in response to reference (f) which directed that all ACAT I and IIS programs have a chartered program manager.
- 3. Objective. To issue the HFAJ Charter and to provide for:
- a. Intensified management and centralized direction required for program execution.
 - b. Clear delineation of management responsibility and authority.
- c. Application of systems program management techniques to HFAJ Program. The major Program Manager, PME 110H, will provide management, guidance, tasking and information to Naval systems commanders and designated program managers to effect a fully integrated and coordinated HFAJ in the Naval Material Command.

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4. Manager, HFAJ Program Area of Responsibility. The HFAJ Program Manager's basic responsibilities are set forth in SECNAVINST 5000.1B. Commander, Naval Sea Systems Command (COMNAVSEA) and Commander, Naval Air Systems Command (COMNAVAIR) have the authority and are responsible for material support, systems engineering, contracting for materials and services, administrative and technical support and guidance, and platform integration of ship and aircraft based systems as defined in reference (c). A Memorandum of Agreement will be developed between COMNAVAIR and Commander, Naval Electronic Systems Command (COMNAVELEX) to amplify these responsibilities and operating procedures for execution of the aircraft systems HFAJ program under PME 110H management.

5. Action

- a. CAPT D. E. McGlasson, USN, is assigned the position of the HFAJ Major Program Manager, PME-110H. Responsibilities and authorities are delineated in enclosure (1).
- b. Elements of the Naval Material Command shall provide support facilities as required by the HFAJ Program Manager in the discharge of his responsibilities, as outlined in enclosure (1).
- c. The HFAJ Program Manager reports directly to the Program Director, PDE 110, who exercises broad direction and provides guidance to the program manager.
- 6. Approval. The Charter and this instruction have been approved in accordance with references (a), (b) and (c).

G. B. SHICK, JR.

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CHARTER

FOR THE

HIGH FREQUENCY ANTI-JAM PROGRAM (HFAJ)

- 1. High Frequency Anti-Jam Program System Description. The purpose of HFAJ is to develop and acquire conventional and Anti-Jam (AJ) High Frequency (HF) communications systems to meet tactical and strategic support connectivity needs of ship, shore and air platforms. In accordance with CNO ltr ser 00/S500300 of 30 June 1980 and DODINST 4245.4, the HFAJ will include vigorous and sustained efforts to improve the nuclear survivability of HF communications systems. It will provide: AJ protection to mission essential links in all naval applications, improved systems availability, automation and efficiency over existing systems. Conventional systems to be developed under HFAJ are: (1) OA-9122/SRC Antenna Coupler Group in order to reduce shipboard Electro Magnetic Interference/Radio Frequency Interference (EMI/RFI) and permit more efficient use of the HF Spectrum, (2) a programmable HF Digital Modem (HFDM - AN/USQ-83) in order to permit future introduction of new signal waveforms without equipment level replacements requiring shipyard support. The shipboard HFAJ system to be developed consists of a frequency agile receiver/exciter, an AJ modem, an AJ controller, a broadband power amplifier and an RF distribution/antenna system. These shipboard systems will form the basis of interoperability for all other HFAJ developments, i.e. aircraft, submarine, strategic and shore based support systems.
- 2. Scope of the Program. HFAJ is designated ACAT I. The HFAJ Program master list is a subset of the PDE 110 master list, which is updated periodically and maintained and approved by the Naval Material Command. This list identifies those programs and systems and their associated program designations which are within the scope and level of control of the Communications Systems Program Director, PDE 110. The responsibilities of the HFAJ Program Manager are commensurate with that required of a major command.

3. Authorities and Responsibilities

- a. <u>Authorities</u>. The HFAJ Program Manager shall exercise the authority delegated by COMNAVELEX and the Communications Systems Program Director in all matters within the scope of this charter. The HFAJ Program Manager shall also provide guidance and direction including the control and assignment of approved funds, and appraise the status and progress of work to ensure a fully integrated, coordinated and timely effort in the Naval Material Command.
- (1) The HFAJ Communications Program Manager shall prepare fitness reports and performance evaluations for COMNAVELEX military and civilian personnel assigned. He shall initiate, at his discretion, concurrent fitness reports or evaluations, as appropriate, on other COMNAVELEX officers and civilian employees working on the HFAJ communications program under the authority of this charter.

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- (2) The HFAJ Program Manager's basic authorities and limitations are set forth in SECNAVINST 5000.1B in regard to the responsibilities of a program manager.
- (3) The HFAJ Program Manager is the single executive responsible to the Communications Systems Program Director for the successful management of the HFAJ Program. He has directive authority within the scope of the HFAJ Program over the control and use of approved office resources to meet Navy requirements, and over program efforts of government and contractor organizations. The HFAJ Program Manager is expected to act (with the delegated authority of PDE 110) on his own initiative in program matters.
 - (4) The HFAJ Program Manager has specific authority to:
- (a) Approve plans, schedules and funding requirements of each element for the timely fulfillment of HFAJ requirements.
- (b) Consult with and advise COMNAVELEX, NAVMAT, and OPNAV as to the status of the overall program and as to progress made in satisfying requirements.
- (c) Exercise centralized integration and coordination authority over the preparation, submission and justification of budget items at the program office level. Funds and material resources identified with program office program elements, or parts thereof, listed in the Five Year Defense Program (FYDP) shall be assigned to and managed by the HFAJ Program Manager. He will be responsible for the administrative assignment of these funds to cognizant activities for execution of approved HFAJ communications systems development, acquisition and support efforts. A method will be established between COMNAVELEX and COMNAVAIR to clearly develop, distinguish and maintain the aircraft systems portion of the HFAJ budget.
- (d) Review, and as appropriate, indicate concurrence with all Development Proposals (DPs), Test and Evaluation Master Plans (TEMPs), Advanced System Concepts (ASCs), Acquisition Plans (APs), Integrated Logistics Support Plans (ILSPs) and similar documentation for HFAJ.
- (e) Coordinate and maintain final NMC inventory objectives and associated budget requirements for HFAJ related programs.
- (f) Conduct system analysis and cost effectiveness studies for HFAJ equipments and components.
- (g) Maintain liaison with appropriate exploratory development programs and provide the Office of Naval Research (ONR) with written reviews and recommendations when requested by ONR.
- (h) State requirements for fleet assistance services for evaluation of the HFAJ equipments as appropriate.

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- (i) For operational equipments, conduct an appropriate communications test program. Establish system test criteria, approve test plans and evaluate test results for HFAJ related items being installed in various platforms, and recommend to COMNAVELEX the certification of readiness for operational evaluation of installed communication systems.
- (j) Report to PDE 110 and the cognizant COMNAVELEX, NAVMAT and OPNAV Offices any pattern of failures affecting or tending to affect HFAJ equipment.
 - (k) Plan, organize, and administer the HFAJ Program Office.
- (1) Exercise any other authority required to implement the responsibilities within the scope of this charter.
- b. Responsibilities. The HFAJ Program Manager's basic responsibilities are set forth in SECNAVINST 5000.1B. COMNAVSEA and COMNAVAIR have the authority and are responsible for material support, systems engineering, contracting for materials and services, administrative and technical support and guidance, and platform integration of ship and aircraft based systems as defined in NAVMATINST 5460.2B. A Memorandum of Agreement will be developed between COMNAVAIR and COMNAVELEX to amplify these responsibilities and operating procedures for execution of the aircraft systems HFAJ program under PME 110H management. In addition, the HFAJ Program Manager shall:
- (1) Direct execution of assigned programs for HFAJ subsystems within the total COMNAVELEX established Command, Control, Communications and Intelligence (${\rm C}^3$ I) system architecture and design.
- (2) Provide HFAJ programming inputs into the communications master list.
- (3) Provide the primary interface with OPNAV, NAVMAT, SYSCOMS, Defense Communications Agency (DCA) and other Services and agencies for all HFAJ functions. This shall not prevent normal contact involved in day-to-day conduct of business between PDA's and Navy or other agencies.
- (4) Be advised of Program Objective Memorandum (POM), budget submission and reprogramming actions concerning HFAJ communications.
 - (5) Represent and speak for COMNAVELEX concerning HFAJ matters.
 - (6) Serve as the Navy technical authority for HFAJ.
- $\ensuremath{(7)}$ Ensure minimum impact on standard and interface hardware while implementing the HFAJ.
- (8) Ensure that systems engineering, acquisition, integration, testing and logistic support services, required for the HFAJ system, are provided.

- (9) Ensure life cycle radio frequency supportability and electromagnetic compatibility of the HFAJ system.
- (10) Plan, program, budget and administer all funds allocated to the program manager to implement the HFAJ. Provide recommended budget requirements to other Navy agencies for support of the program. Develop, justify and maintain a total HFAJ budget for consideration by higher echelons in the preparation of the Navy budget request.
- (11) Provide data for preparing responses to inquiries from news media and Congressional sources to OPNAV.
- (12) Oversee the design, development, test, evaluation and procurement of shipboard and ground terminal interfaces as required.
- 4. Intra-platform Material Support and Integration The responsibility and authority of COMNAVSEA and COMNAVAIR for material support, systems engineering, contracting for materials and services, administrative and technical support and guidance and integration of ship based and aircraft systems as defined in NAVMATINST 5460.2B is recognized. In keeping with the centralized direction and intensified management required for the HFAJ program execution, the aircraft systems responsibilities are delegated to COMNAVAIR. COMNAVAIR will designate a Deputy Program Manager and organization/staffing for aircraft HFAJ systems who will be required to work through and support the HFAJ Program Manager, PME 110H. PME 110H will develop, define, document, and distribute the HFAJ inter-platform interoperability architecture and specifications. The Memorandum of Agreement to be developed between COMNAVELEX and COMNAVAIR will amplify these responsibilities and procedures for execution of the aircraft systems program under PME 110H management.
- 5. Relationship to Chartering Authority/Special Operating Relationship.
 The HFAJ Program Office is chartered by COMNAVELEX and reports to
 COMNAVELEX via PDE 110. The variety and scope of activities included in the
 program office produce the following special operating relationships:
- a. Office of the Joint Chiefs of Staff (OJCS). The HFAJ Program Manager will serve as the Naval Material Command's single point-of-contact with the OJCS in matters pertinent to the program.
- b. Office of the Secretary of Defense (OSD). The HFAJ Program Manager, in conjunction with OPNAV, will effect necessary liaison with appropriate OSD personnel on matters of concern regarding technical feasibility and compatibility between the HFAJ system and other DOD systems. In response to Office of the Secretary of Defense (OSD) memo of 13 Sept 1982 "Management of the Acquisition of Survivable and Enduring Systems", the liaison will include explicit, reasoned management decisions on how nuclear survivability and endurance requirements are being integrated into the HFAJ acquisitions. The program manager will serve as the NMC point of contact with the OSD and will, as requested, support the OSD in matters pertinent to the HFAJ.
- c. Chief of Naval Operations (CNO). The development of force level requirements, operational concepts and operational requirements doctrines are

under the direction of the OPNAV Program Coordinator. The program manager will maintain close liaison with the program coordinator in these matters and keep him properly informed. In response to CNO ltr ser 00/S500300 of 30 June 1980 and DODINST 4245.4, the liaison will include explicit, reasoned management decisions on how nuclear survivability and endurance requirements are being integrated into the HFAJ.

- d. Defense Communications Agency (DCA). The program manager is authorized direct contact with DCA on matters involving HFAJ. This includes interfacing with the Office of the Manager, National Communications System (NCS), as required.
- e. Chief of Naval Material (CNM). The program manager will report to Chief of Naval Material the status of the HFAJ Program Office (in accordance with the applicable NAVMAT and NAVELEX instructions) and prepare and submit formal documentation for review and approval. In accordance with NAVMATINST 5430.62, the program manager will maintain close liaison with and be responsive to the Theater Nuclear Warfare Program Manager (PM-23) concerning how nuclear survivability and endurance requirements are being integrated into the HFAT.
- f. U.S. Air Force and U.S. Army (USAF/USA). The program manager is authorized direct contact with cognizant offices of the U.S. Air Force and U.S. Army for HFAJ matters.
- g. National Security Agency (NSA). The program manager is authorized to utilize existing interfaces with NSA regarding COMSEC matters as required.
- 6. <u>Supporting/Participating Organization</u>. The scope of program office operations requires the participation of activities both within and external to NAVELEX in order to effectively support the acquisition of high frequency communications systems. The following paragraphs identify principal participating organizations and, in broad terms, their areas of participation and support.
- a. Navy Participating Organizations. All SYSCOMs and other program managers shall, to the full extent of resources assigned by CHNAVMAT for this purpose, support the program office by the timely accomplishment of tasks assigned or delegated by the HFAJ Program Manager. On request, each appropriate SYSCOM and program office shall provide the program manager with information in sufficient detail to permit the program manager to coordinate the HFAJ and report on program status, schedules, problem areas and cost. They shall furnish the program manager with program information, including justification for inclusion in POM and other programming, budgeting and funding requests. The program manager, in turn, will provide each Navy participating activity with information necessary to prepare and consolidate standard budget exhibits. Unresolved issues or conflicts which may develop that the program manager cannot resolve with the Naval systems commanders or designated program managers will be referred to the appropriate Systems Commander, and if

not resolved at that level, to the CNM for final resolution. The action directed by the program manager shall be guided by existing management directives and shall proceed during the period pending resolution. The following paragraphs summarize current SYSCOM participation in the HFAJ:

- (1) Naval Sea Systems Command (NAVSEA). The Naval Sea Systems Command participates in all activities associated with the development and acquisition of submarine and surface platform equipment and facilities, and is responsible for planning and scheduling the installation of equipment on board ships/submarines consistent with program office performance requirements and technical data. The program manager will normally act as a participating manager.
- (2) <u>Naval Facilities Engineering Command (NAVFAC)</u>. The Naval Facilities Engineering Command participates in the HFAJ in support of facilities engineering and construction.
- (3) Naval Air Systems Command (NAVAIR). The Naval Air Systems Command performs all material support, systems engineering, contracting for materials and services, administrative and technical support and guidance activities associated with aircraft systems, as defined in NAVMATINST 5460.2B, and is responsible for planning and scheduling the integration of systems on aircraft consistent with program office interoperability performance requirements and technical data.
- (4) <u>Naval Military Personnel Command (NMPC)</u>. The Navy Military Personnel Command participates in the HFAJ in the areas of personnel planning and training.
- (5) <u>Naval Surface Weapons Center (NSWC)</u>. NSWC is the Navy's designated lead laboratory in Electro-Magnetic Pulse (EMP) and other nuclear effects.
- b. NAVELEX Supporting Organizations. Division and staff offices of PDE 110 and NAVELEX functional organizations will support the HFAJ Program Manager in accordance with the NAVELEX Organizational Manual, NAVELEXINST 5430.1B and SECNAVINST 5000.1B. Functional managers and staff personnel are responsible for providing guidance and recommending actions; however, HFAJ decision responsibility rests with the program manager. When the program manager prefers to act contrary to functional directorate recommendations on policy and objectives, the matter will be jointly referred to higher authority for resolution. In the interim, the direction of the program manager, who will be guided by existing management directives, particularly with regard to control of funds, will be followed.
- c. NAVELEX Comptroller Relationship The Communication Systems Program Financial Execution Officer (FEO) (PDE-110P) will be responsible for financial execution of HFAJ. The FEO will report to both the Program Director (PDE 110) and the Comptroller (ELEX 01). NAVMATINST 7000.29 and ELEX 00 memo ser 36-01A of 11 June 1984 contain the specific duties and responsibilities of the FEO.

7. Organization and Staffing

- a. <u>Organization</u>. Relying on PDE 110 for the majority of personnel resources, the HFAJ Program Office is composed of elements of the following major components:
 - (1) Program Manager/Staff Office (PME 110H)
 - (2) Communications Systems Engineering (PDE 110-1)
 - (3) Shore Equipment Development (PDE 110-2)
 - (4) Ship Equipment Development (PDE 110-2)
 - (5) Submarine Equipment Development (PDE 110-3)
 - (6) COMSEC Interface (PDE 110-2)
 - (7) Financial Management (PDE 110P)
 - (8) Contract Administration & Management (ELEX 2701)
 - (9) Aircraft Systems Development (AIR-543G)

Organization charts for the program office and its components are contained in Appendix (A)

- b. Staffing. The HFAJ Program Office shall be staffed as specified in the current staffing plan in accordance with NAVELEXINST 5430.21A. The following key positions are established with PME 110H and will be continually filled.
 - (1) HFAJ Program Manager (PME 110H)
 - (2) HFAJ DPM (PME 110HA)
 - (3) Technical Manager and Systems Engineer (PDE 110-2, 110HT)
 - (4) Business and Financial Manager (PDE 110HP)
 - (5) Contractual Office (ELEX 2701)
- 8. Operating Parameters. In matters relating to HFAJ requirements, the selection of work to be performed and its appraisal for military effectiveness and readiness, the HFAJ Program Manager will obtain guidance and direction from OPNAV, keeping CHNAVMAT and the SYSCOMs informed on matters of significance. Direct liaison is authorized from the program manager to OPNAV to ensure the free crossflow of information and ideas essential to molding of Navy communications requirements and capabilities.

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9. <u>Transition/Disestablishment</u>. The program office is an on-going entity with the functional mission of developing and deploying operationally effective and operationally suitable improvements to HF communications for the Navy. The HFAJ Program Office shall be reviewed periodically to determine if it has accomplished its objectives. If the review indicates the objectives have been or are about to be accomplished, a transition plan shall be issued to ensure a smooth disposition of remaining resources, responsibilities and functions.

